Ministry of
Northern Development
and Mines

Ontario

ONTARIO GEOLOGICAL SURVEY

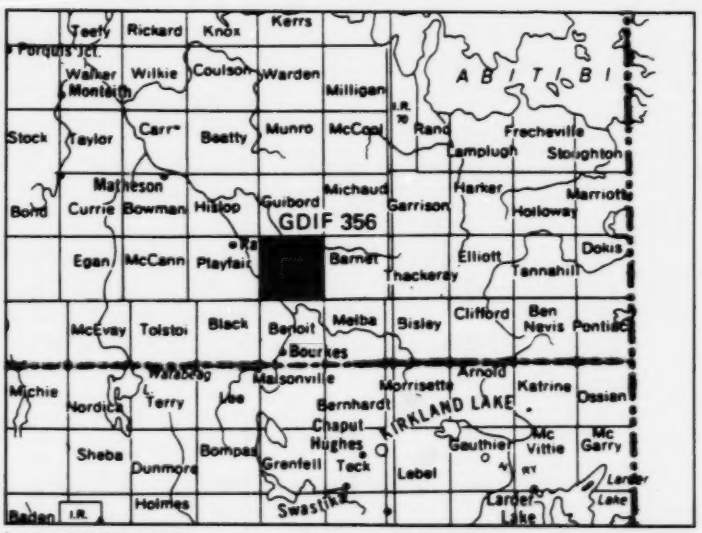
GEOLOGICAL DATA INVENTORY FOLIO

GDIF 356

COOK TOWNSHIP

DISTRICT OF COCHRANE

Compiled by the Staff of
the Resident Geologist's Office
Kirkland Lake



LOCATION MAP

Scale: 1:1 013 760 or 1 inch to 16 miles

87-06517/

NTS Number 42A/08

Mining Claim Map Number M.339

This project is part of Operation Black River-Matheson (BRIM) which was funded equally by the Ontario Ministry of Northern Development and Mines and the Ontario Ministry of Natural Resources.

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Geological Survey does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Ontario Geological Survey
1987: Cook Township, District of Cochrane; Ontario Geological Survey, Geological Data Inventory Folio 356 compiled by the staff of the Resident Geologist's Office, Kirkland Lake, 35 p. and 2 maps.

Original Compilation by: Kamal Kalicharran and B.J. Westin

Date	Page Revised	Revised by

Date	Page Revised	Revised by

TABLE OF CONTENTS

Data Sources Checklist 1
Metals and Minerals Reference List 2
Mineral Occurrences 3
Type of Work 4
Drill Hole Summary 7
Airborne Geophysical Survey Data 14
Geochemical Survey Data 15
Miscellaneous Data 16
Newspaper Clipping File 17
ODM General Index Search 18
Selected References 20
Notes and Addenda 34

ACCOMPANYING MAPS

Property Location Map - 1 Map

Exploration Data Map - 1 Map

Map Scale 1: 31 680 or 1 inch to ½ mile

CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS

If the reader wishes to convert imperial units to SI (metric) units or SI units to imperial units the following multipliers should be used:

CONVERSION FROM SI TO IMPERIAL			CONVERSION FROM IMPERIAL TO SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
			LENGTH		
1 mm	0.039 37	inches	1 inch	**25.4**	mm
1 cm	0.393 70	inches	1 inch	**2.54**	cm
1 m	3.280 84	feet	1 foot	**0.304 8**	m
1 m	0.049 709 7	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	**1.609 344**	km
			AREA		
1 cm^2	0.155 0	square inches	1 square inch	**6.451 6**	cm^2
1 m^2	10.763 9	square feet	1 square foot	**0.092 903 04**	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
			VOLUME		
1 cm^3	0.061 02	cubic inches	1 cubic inch	**16.387 064**	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.308 0	cubic yards	1 cubic yard	0.764 555	m^3
			CAPACITY		
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	**4.546 090**	L
			MASS		
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	**31.103 476 8**	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	**0.453 592 37**	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	**907.184 74**	kg
1 t	1.102 311	tons (short)	1 ton (short)	**0.907 184 74**	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	**1016.046 908 8**	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	**1.016 046 908 8**	t
			CONCENTRATION		
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy)/ton (short)	20.0	pennyweights/ton (short)
1 pennyweight/ton (short)	0.05	ounce (troy)/ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

NOTE–Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries published by The Mining Association of Canada in co-operation with the Coal Association of Canada.

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no'; if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	YES	W.J.D.
2	Assessment Files Research Office, Toronto	YES	P.E.S.
3	ODM General Index; 9 volumes	YES	P.E.S.
4	Catalogue of Airborne Geophysical Surveys (ODM)	–	–
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	NO	K.D.K.
6	ODM Industrial Mineral Reports	NO	K.D.K.
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	NO	W.J.D.
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	NO	W.J.D.
9	Newspaper Clippings File	YES	W.J.D.
10	GSC Index to Publications	NO	W.J.D.
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	YES	W.J.D.
12	OGS Index Maps	YES	K.D.K.
13	Source Mineral Deposit Records (O.G.S.)	YES	K.D.K.
14	Author - Subject Articles File	YES	W.J.D.
15	Miscellaneous Papers: ODM & OGS	YES	W.J.D.
16	ODM Geological Circulars: OGS Study Series	NO	K.D.K.
17	ODM Preliminary Reports: ODM Bulletins	NO	K.D.K.
18	ODM – OGS Open File Reports	YES	W.J.D.
19	OGS Northern Ontario Engineering Geology Terrain Studies	YES	K.D.K.
20	OGS Aggregate Resources Inventory Papers	NO	K.D.K.
21	OGS Mineral Potential Maps	YES	W.J.D.

METALS AND MINERALS REFERENCES LIST

△ anh. . . . . .Anhydrite	△ fu. . . . . .Fuchsite	△ Ni. . . . . Nickel	△ st . . . . . .Stone
△ ank. . . . . .Ankerite	△ gn. . . . . Galena	△ Nb . . . . . .Niobium	△ talc. . . . . .Talc
△ anna . . . . . Annabergite	△ gt. . . . . Garnet	△ Pd . . . . . .Palladium	△ Te . . . . . .Tellurium
△ ap. . . . . .Apatite	△ goe. . . . . .Goethite	△ peat . . . . . .Peat	△ td. . . . . Tetrahedrite
△ arg . . . . . Argentite	▲ Au . . . . . Gold	△ pent . . . . . .Pentlandite	△ th. . . . . .Thorite
△ As . . . . . .Arsenic	▲ gf. . . . . .Graphite	△ Pt. . . . . .Platinum	△ Th . . . . . .Thorium
△ asp . . . . . .Arsenopyrite	△ gl . . . . . Gravel	▲ py . . . . . .Pyrite	△ thuc . . . . . Thucholite
△ asb . . . . . .Asbestos	△ gyp. . . . . .Gypsum	△ pyl . . . . . Pyrochlore	△ ti . . . . . Titanite
△ ba. . . . . .Barite	▲ hem . . . . . Hematite	△ pyrl . . . . . .Pyrolusite	△ Ti. . . . . Titanium
△ be. . . . . .Beryl	△ il . . . . . .Ilmenite	▲ po . . . . . .Pyrrhotite	△ tour . . . . . .Tourmaline
△ Bi. . . . . .Bismuth	△ Fe . . . . . .Iron	△ q . . . . . .Quartz	△ trap . . . . . .Trap rock
△ bn . . . . . .Bornite	△ IF. . . . . Iron Formation	▲ qcv. . . . .Quartz carbonate vein	△ W . . . . . Tungsten
△ bran . . . . . .Brannerite	△ jas . . . . . Jasper	△ ra. . . . . .Radioactive minerals	△ uran . . . . . Uraninite
△ bruc . . . . . .Brucite	△ kaol . . . . . .Kaolinite (kaolin)	△ RE . . . . . .Rare Earths	△ U . . . . . .Uranium
△ Cd . . . . . Cadmium	△ ky . . . . . Kyanite	△ sd. . . . . Sand	△ verm . . . . . .Vermiculite
△ calc. . . . . .Calcite	△ Pb . . . . . Lead	△ sgl . . . . . Sand and gravel	△ Y . . . . . Yttrium
△ carb . . . . . .Carbonate	△ lim . . . . . Limonite	△ ss . . . . . .Sandstone	△ Zn . . . . . .Zinc
△ cel . . . . . .Celestite	△ Li. . . . . Lithium	△ scap . . . . . Scapolite	△ zr . . . . . Zircon
△ cc. . . . . .Chalcocite	△ mgst . . . . . .Magnesite	△ shee . . . . . .Scheelite	
▲ cp. . . . . .Chalcopyrite	△ mag . . . . . .Magnetite	△ serp . . . . . Serpentine	
△ ch. . . . . .Chert	△ mc . . . . . Malachite	△ sh. . . . . .Shale	
△ clay . . . . . .Clay	△ Mn . . . . . Manganese	△ sid . . . . . Siderite	
△ Co . . . . . Cobalt	△ mb . . . . . Marble	△ si . . . . . Silica	
△ cob. . . . . Cobaltite	△ mar. . . . . Marcasite	▲ Ag . . . . . .Silver	
△ cb. . . . . .Columbite	△ ma . . . . . .Marl	△ sl . . . . . Slate	
△ Cu . . . . . .Copper	△ mi . . . . . Mica	△ sm . . . . . .Smaltite	
△ cor . . . . . Corundum	△ ml . . . . . .Millerite	△ sod. . . . . Sodalite	
△ dol . . . . . Dolomite	△ mo . . . . . Molybdenite	△ spec . . . . . Specularite	
▲ ep. . . . . Epidote	△ Mo . . . . . .Molybdenum	▲ sp. . . . . .Sphalerite	
△ ery . . . . . Erythrite	△ mon . . . . . Monazite	△ spd. . . . . .Spodumene	
△ fel . . . . . .Feldspar	△ ne. . . . . Nephelite (nepheline)	△ staur . . . . . .Staurolite	
△ fl . . . . . .Fluorite (fluorspar)	△ nc. . . . . .Niccolite	△ stib. . . . . Stibnite	

Solid triangles indicate metal and mineral occurrences shown on the accompanying maps or mentioned within either the Drillhole Summary or Mineral Occurrences.

COOK TOWNSHIP

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
A	Lambroff Lucky Strike Gold Syndicate	Au	-	Resident Geologist Assessment Files, Kirkland Lake, Ont.	Samples along quartz fracture zones in Rhyolite were assayed; best result 2.94oz Au/t across 1.3' wide. The actual location on claim 29124 (1937) is unknown.
B	Marshall-Guitard	Au	-	Resident Geologist Assessment Files, Kirkland Lake, Ont.	The best assay result 2.09oz Au/t was taken along "vein west" either in Guibord or Cook Tp. The actual location of sampling on the property is unknown.
C	New Kelore Mines Ltd.	Au, Ag	-	Resident Geologist Assessment Files, Kirkland Lake, Ont.	High values of Au and Ag were found after drilling in volcanics with cherty quartz stringers, disseminated pyrite, quartz carbonate veins and hematite stains. Highest value - 1.51oz Au/t over 1.5'.
D	Pion, T.	Au	-	Resident Geologist Assessment Files, Kirkland Lake, Ont.	Two pyritized quartz veins 8" & 11" among breccia have gold values of 0.09 and 0.19oz Au/t respectively.
E	St. Joe Canada Inc. #1	Au	-	Resident Geologist Assessment Files, Kirkland Lake, Ont.	4.6' wide from DDH (PR8303) with quartz carbonate vein, pyrite and hematite within an alteration zone, 665ppb Au as the highest value.
F	St. Joe Canada Inc. #2	Au	-	Resident Geologist Assessment Files Kirkland Lake,Ont.	Reverse Circulation hole RC-83-83 intersected bedrock gold values of 455ppb Au over 2m (6.5ft).

COOK TOWNSHIP 4

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE KIRKLAND LAKE COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
1	Amax Potash Ltd.	78																		
2	D'Aragon Mines, Ltd.											47								
3	Golden Cradle Resources Ltd. "Black River Claim Group"											83	83							
4	Hobbs, L.G.				81															
5	Imperial Oil Enterprises Ltd. "Grid 9"				72			73				72	72							
6	Imperial Oil Enterprises Ltd. "Grid 10"				72			73				72	72							
7	International Nickel Co. of Canada, Ltd., The				65															
8	Lambroff Lucky Strike Gold Syndicate					37														
9	Marshall, Charles			73																
10	Marshall-Guitard					46		46												
11	New Kelore Mines Ltd.	75		75 77	75 77								75							

GDIF FORM NO. 2

COOK TOWNSHIP

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE KIRKLAND LAKE COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
12	Noranda Exploration Ltd. "Benoit 3-71"											72	72							
13	Noranda Exploration Ltd. "Cook 1-71"				73							72	72							
14	Noranda Exploration Ltd. "Cook 2-72"	72										72	72							
15	Noranda Exploration Ltd. "Cook 4-72"	72										72	72							
16	Peterson Ramore Syndicate	38						46												
17	Pion, T.	36				36		36												
18	St. Joe Canada Inc.				84 83	85														
19	Tagliamonte, F. & Fedora, J. A.								83	83										
20	Bennett, R.A.											85	86							
21	Domego Resources Ltd. "Black River Property"	86																		
22	McCormack, D.											84	84							

GDIF FORM NO. 2

COOK TOWNSHIP 6

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE KIRKLAND LAKE COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
23	Noranda Exploration Co. Ltd.								85	85										

GDIF FORM NO. 2

COOK TOWNSHIP

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
1	Hobbs, L.G.	DC811	07/81	0°	-60°	136'	1,037'	py,qcv,gf	
2	Imperial Oil Enterprises Ltd. "Grid 9"	3	12/72	45°	-50°	335'	335'	-	
3	Imperial Oil Enterprises Ltd. "Grid 10"	4	12/72	45°	-50°	224'	448'	gf	
4	International Nickel Co. of Canada, Ltd. The	28490	05/65	0°	-55°	166'	486'	py,gf	
5	New Kelore Mines Ltd.	NK771	05/77	40°	-60°	4'	14'	qcv,ep,py,hem	2' @ 0.26oz Au/t;Ag
6	" "	NK772	05/77	40°	-45°	0'	118'	qcv,ep,py	1' @ 0.11oz Au/t;Ag
7	" "	NK175	07/75	35°	-45°	7'	168'	qcv,ep,py	-
8	" "	NK275	07/75	35°	-45°	0'	136'	qcv,py,ep	1.5' @ 0.51 oz Au/t;Ag
9	Noranda Exploration Ltd. "Cook 1-71"	C-73-2	01/73	35°	-55°	132'	479'	qcv,hem,.cp py,po,hem	
10	St. Joe Canada Inc.	PR8301	05/83	016°	-46°	89'	895'	py,qcv,hem ep,cp	Au
11	" "	PR8302	06/83	012°	-50°	167'	846'	py,qcv,hem cp	Au
12	" "	PR8303	06/83	010°	-50°	149'	816'	hem,py,qcv cp	4.6' @ 665ppb Au;Cu,Mo

GDIF FORM NO. 3

† - Core stored at Swastika Drill Core Storage Library

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
13	St. Joe Canada Inc.	PR8304	06/83	100°	-72°	100'	364'	py,qcv,ep cp,sp	Au,Cn,Pb,Zn
14	" "	RC-83-83	02/83	-	-90°	62'	68'	-	6.5' @ 455ppb Au
15	" "	RC-83-97	03/83	-	-90°	48'	57'	-	-
16	" "	RC-83-98	03/83	-	-90°	71'	84'	-	-
17	" "	RC-83-99	03/83	-	-90°	96'	112'	-	-
18	" "	RC-83-100	03/83	-	-90°	29'	43'	-	-
19	" "	RC-83-101	03/83	-	-90°	37'	52'	-	-
20	" "	RC-83-102	03/83	-	-90°	49'	62'	-	-
21	" "	RC-83-106	03/83	-	-90°	93'	97'	-	-
22	" "	RC-83-107	03/83	-	-90°	79'	92'	-	-
23	" "	RC-83-108	03/83	-	-90°	79'	86'	-	-
24	" "	PR-83-137	10/83	-	-90°	140'	143'	-	Au
25	" "	PR-83-138	10/83	-	-90°	154'	159'	-	Au
26	" "	PR-83-139	10/83	-	-90°	91'	102'	-	Au
27	" "	PR-83-140	10/83	-	-90°	97'	112'	-	Au
28	" "	PR-83-141	10/83	-	-90°	109'	112'	-	Au

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† - Core stored at Swastika Drill Core Storage Library

COOK TOWNSHIP

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
29	St. Joe Canada Inc.	PR-83-142	10/83	-	-90°	106'	118'	-	Au
30	" "	PR-83-143	10/83	-	-90°	82'	88'	-	Au
31	" "	PR-83-144	10/83	-	-90°	74'	84'	-	Au
32	" "	PR-83-145	10/83	-	-90°	46'	57'	-	Au
33	" "	PR-83-146	10/83	-	-90°	47'	57'	-	Au
34	" "	PR-83-147	10/83	-	-90°	54'	64'	-	Au
35	" "	PR-83-148	10/83	-	-90°	122'	124'	-	Au
36	" "	PR-149	11/83	-	-90°	38'	45'	-	Au
37	" "	PR-150	11/83	-	-90°	45'	49'	-	Au
38	" "	PR-151	11/83	-	-90°	72'	75'	-	Au
39	" "	PR-152	11/83	-	-90°	99'	103'	-	Au
40	" "	PR-153	11/83	-	-90°	92'	96'	-	Au
41	" "	PR-154	11/83	-	-90°	82'	86'	-	Au
42	" "	PR-155	11/83	-	-90°	83'	89'	-	Au
43	" "	PR-156	11/83	-	-90°	110'	113'	-	Au
44	" "	PR-157	11/83	-	-90°	86'	92'	-	Au
45	" "	PR-158	11/83	-	-90°	109'	113'	-	Au

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† - Core stored at Swastika Drill Core Storage Library

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
46	St. Joe Canada Inc.	PR-159	11/83	-	-90°	107'	110'	-	Au
47	" "	PR-160	11/83	-	90°	78'	81'	-	Au
48	" "	PR-161	11/83	-	-90°	103'	106'	-	Au
49	" "	RC-MB-83-59	01/83	-	-90°	86'	93'	-	Au
50	" "	RC-MB-83-60	01/83	-	-90°	61'	64'	-	Au
51	" "	RC-MB-83-61	01/83	-	-90°	79'	84'	-	Au
52	" "	RC-MB-83-68	01/83	-	-90°	67'	69'	-	Au
53	" "	RC-MB-83-69	01/83	-	-90°	113'	118'	-	Au
54	" "	PR-167	11/83	-	-90°	195'	154'	-	Au
55	" "	RC-MB-83-70	01/83	-	-90°	104'	108'	-	Au
56	" "	RC-MB-83-71	01/83	-	-90°	105'	108'	-	Au
57	" "	RC-MB-83-72	02/83	-	-90°	94'	98'	-	Au
58	" "	RC-MB-83-80	02/83	-	-90°	53'	59'	-	Au

GOIF FORM NO. 3

† - Core stored at Swastika Drill Core Storage Library

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
59	St. Joe Canada Inc.	RC-MB-83-81	02/83	-	-90°	126'	133'	-	Au
60	" "	PR-173	02/84	-	-90°	88'	91'	-	Au
61	" "	PR-174	02/84	-	-90°	108'	113'	-	Au
62	" "	PR-175	02/84	-	-90°	21'	25'	-	Au
63	" "	PR-176	02/84	-	-90°	63'	65'	-	Au
64	" "	PR-177	02/84	-	-90°	50'	52'	-	Au
65	" "	PR-178	02/84	-	-90°	113'	116'	-	Au
66	" "	PR-179	02/84	-	-90°	83'	87'	-	Au
67	" "	PR-180	02/84	-	-90°	61'	64'	-	Au
68	" "	PR-181	02/84	-	-90°	12'	16'	-	Au
69	" "	PR-182	02/84	-	-90°	83'	89'	-	Au
70	" "	PR-183	02/84	-	-90°	78'	82'	-	Au
71	" "	PR-184	02/84	-	-90°	130'	133'	-	Au
72	" "	PR-185	02/84	-	-90°	100'	103'	-	Au
73	" "	PR-186	02/84	-	-90°	132'	136'	-	Au
74	" "	PR-187	02/84	-	-90°	93'	97'	-	Au

GDIF FORM NO. 3

† - Core stored at Swastika Drill Core Storage Library

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted - in Log	Assay Data Included for
75	St. Joe Canada Inc.	PR-188	02/84	-	-90°	157'	169'	-	Au
76	" "	PR-189	02/84	-	-90°	150'	154'	-	Au
77	" "	PR-190	02/84	-	-90°	141'	144'	-	Au
78	" "	PR-191	02/84	-	-90°	113'	118'	-	Au
79	" "	RC-MB-83-82	02/83	-	-90°	85'	89'	-	Au
80	" "	RC-MB-83-103	03/83	-	-90°	121'	122'	-	Au
81	" "	RC-MB-83-104	03/83	-	-90°	118'	131'	-	Au
82	" "	RC-MB-83-105	03/83	-	-90°	109'	115'	-	Au
83	" "	RC-MB-83-109	03/83	-	-90°	95'	107'	-	Au
84	" "	RC-MB-83-110	03/83	-	-90°	89'	94'	-	Au
85	" "	RC-MB-83-111	03/83	-	-90°	82'	87'	-	Au
86	" "	RC-MB-83-112	03/83	-	-90°	95'	107'	-	Au
87	" "	RC-MB-83-113	03/83	-	-90°	98'	107'	-	Au

GDIF FORM NO. 3

† - Core stored at Swastika Drill Core Storage Library

COOK TOWNSHIP

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
88	St. Joe Canada Inc.	RC-MB-83-114	03/83	-	-90°	100'	105'	-	Au

GDIF FORM NO. 3

† - Core stored at Swastika Drill Core Storage Library

14 COOK TOWNSHIP

AIRBORNE GEOPHYSICAL SURVEY DATA

No.	By For	Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing
19	Dighem Survey F. Tagliamonte & J.A. Fedora	Electromagnetic (6 channels at 918hz) Magnetic (Barringer AM-104 Magnetometer)	170'	N-S	1/8 and 1/10 mile

GDIF FORM NO. 4

COOK TOWNSHIP

Map Sample Site Reference Number	GEOCHEMICAL SURVEY DATA		By	Reference
	Type of Survey	Analysis For		

GDIF FORM NO. 5

MISCELLANEOUS DATA

AGE DATING

Site	Method	Material	Reference	Result

GDIF FORM NO.6

NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office. Kirkland Lake

Northern Miner
New Kelore Mines Ltd. — December 12, 1975
February 13, 1975

White-Karry Gold Mines Ltd.
Local-M.T. Sarnia, Ontario — April 5, 1956

ODM GENERAL INDEX SEARCH

Words searched:

Cook Township
Lava Flow Hill
Lava Flow Mountain

Index Volume	Listing:	Report Volume	Part	Page
2	Cook tp., Coch. dist.			
	See also Lava Flow Mtn.			
	Forest fires	30	6	32
	Lava flows	31	2	40
		33	2	13
		35	3	87
	notes, photos, and section	30	6	34-42,49
	Map. see map 30c	30	6	
	Silver prospecting in	26		126
	Trees	30	6	33,49
	Lava Flow Mtn., Cook tp.			
	Altitude; photo,	30	6	30
		31	7	3
	Rocks, see map 30c	30	6	
3	Cook Tp., Coch.			
	See also Lava Flow Hill			
	"Leopard rock", analysis	41	6	11
		47	7	13
	Physiography	45	6	4
	Lava Flow Hill, Cook Tp.			
	Photo	45	6	2
	Porphyritic lava, notes and photo	45	6	5,6
5	Cook Tp., Coch.			
	Rocks	60	9	10,27
9	Cook Tp., Cochrane dist.			
	Gravity Survey of the Timmins-Matheson area	GR135		

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing	Report Volume	Part	Page

GDIF FORM NO. 8

COOK TOWNSHIP

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Author	Date	Title	Reference	Map Scales and/or Report Pages
		REGIONAL GEOLOGICAL COMPILATION MAPS		
Ayers, L.D. Lumbers, S.B. Milne, V.G. Robeson, D.W.	1970	Ontario Geological Map	ODMNA Map 2196	1:1 013 760
Ayers, L.D. Lumbers, S.B. Milne, V.G. Robeson, D.W.	1971	Ontario Geological Map, East Central Sheet	ODMNA Map 2198	1:1 013 760
Boissoneau, A.N.	1965	Algoma-Cochrane Surficial Geology, Ontario	ODL & F Map S365	1:506 880
Boissoneau, A.N.	1965	Algoma, Sudbury, Timiskaming and Nipissing Surficial Geology	ODL & F Map S465	1:506 880
Card, K.D. Sanford, B.V.	1983	Geology of the Timmins Map Sheet (NM-17)	GSC OF 956	1:1 000 000
Easton, R.M.	1986	Geochronology Compilation Map for Ontario: Sheet 3: East-Central Ontario, All Isotopic Systems	OGS Map P.2842	1:1 013 760
Ginn, R.M.	1964	Timmins-Kirkland Lake Sheet, Cochrane, Sudbury and Timiskaming Dists., Ont. Geol. Compilation Series	ODM Map 2046	1:253 440
Ginn, R.M. Leahy, E.J. Savage, W.S.	1962	Munro-Pontiac Sheet, District of Cochrane	ODM Map P.120	1:63 360
Gordon, J.B.	1977	Gold Deposits of Ontario, East Central Sheet	OGS Map P.1228	1:1 013 760
Gordon, J.B.	1980	Vein Silver Deposits of Ontario, East Central Sheet	OGS Map P.2300	1:1 013 760

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Author	Date	Title	Reference	Map Scales and/or Report Pages
Guillet, G.R.	1977	Clay and Shale Deposits of Ontario	OGS Map 2358 (MDC 15)	1:200 000
Jost, M.	1977	Nickel Deposits of Ontario, East Central Sheet	OGS Map P.1062	1:1 013 760
Lumbers, S.B. Milne, V.G.	1979	Ontario Geological Map, Explanatory Text, Legend and Diagrams of Major Lithologies, Structures and Zones of Metamorphism	OGS Map 2391	1:1 013 760
Lumbers, S.B. Milne, V.G.	1979	Ontario Geological Map, East Central Sheet	OGS Map 2393	1:1 013 760
MERQ-OGS	1984	Lithostratigraphic Map of the Abitibi Subprovince	OGS Map 2484 Que Map DV83-16	1:500 000
Meyn, H.D. Howarth, J.R.	1977	Molybdenum Deposits of Ontario, East Central Sheet	OGS Map P.1246	1:1 013 760
Meyn, H.D. Robertson, J.A.	1975	Iron Deposits of Ontario, East Central Sheet, Districts of Thunder Bay, Algoma, Cochrane, Sudbury, Timiskaming and Nipissing	ODM Map P.1043	1:1 013 760
Ministry of Natural Resources	1985	Ontario Mineral Map	ODM Map 2472	1:1 584 000
Minnes, D.G. Masham, J.S. Scott, D.W. Vos, M.A. & Yundt, S.E.	1983	Industrial Minerals of Ontario	OGS Map P.2591	1:1 500 000
ODM	1969	Mining Divisions and Resident Geologists Districts	ODM Map 2189	1:1 584 000
ODM	1974	Ontario Mineral Map	ODM Map 2310	1:1 584 000

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Author	Date	Title	Reference	Map Scales and/or Report Pages
ODM	1977	Ontario Geology and Principal Minerals	ODM Map 2389 (Rev.)	1:4 224 000
ODMNA	1971	Ontario Geology and Principal Mineral Collecting Localities, Discover Ontario	ODMNA Map 2211	1:4 224 000
OGS	1986	Geological Highway Map, Northern Ontario	OGS Map 2506	1:1 600 000
Pyke, D.R., Ayres,L.D. & Innes, D.G.	1973	Timmins - Kirkland Lake, Geological Compilation Series, Cochrane, Sudbury and Timiskaming Districts	ODM Map 2205	1:253 440
Robertson, J.A.	1976	Mineral Potential Map of Ontario, East Central Sheet	ODM Map P.1099	1:1 013 760
Robertson, J.A.	1982	Uranium and Thorium Deposits of Ontario, East Central Sheet, NTS 31/NW, 32/W, 41/N, 42	OGS Map P.2426	1:1 013 760
Springer, J.	1977	Ontario Mineral Potential, Timmins Sheet and Part of Noranda-Rouyn Sheet, Districts of Sudbury, Timiskaming and Cochrane	OGS Map P.1517	1:250 000
		GEOPHYSICAL MAPS		
Data Plotting Services Inc.	1984	Matheson-Black River Area (BRIM) Magnetic Survey Total Field, based on Airborne Electromagnetic and Total Intensity Magnetic Survey, Matheson-Black River Area, by Questor Surveys Ltd. for OGS. (1984)	MNDM Resident Geologist's Office, Kirkland Lake, Ontario	1:80 000
Data Plotting Services Inc.	1985	Matheson-Black River Area (BRIM) Airborne Magnetic Survey Second Vertical Derivative based on Airborne Electromagnetic and Total Intensity Magnetic Survey, Matheson-Black River Area, by Questor Surveys Ltd., for the OGS. (1984)	MNDM Resident Geologist's Office, Kirkland Lake, Ontario	1:100 000

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Author	Date	Title	Reference	Map Scales and/or Report Pages
Dighem Surveys and Processing Inc.	1986	"Enhanced Shadow" Magnetics, Black River-Matheson Area (BRIM) based on Airborne Electromagnetic and Total Intensity Magnetic Survey, Matheson-Black River Area, by Questor Surveys Ltd., for the OGS. (1984)	MNDM Resident Geologist's Office, Kirkland Lake, Ontario	1:100 000
GSC	1981	Timiskaming-Kapuskasing Region, Magnetic Anomaly Map, Residual Total Field	GSC Map 1563A	1:1 000 000
GSC	1984	Timmins, Magnetic Anomaly Map, Residual Total Field	GSC Map NM-17-M	1:1 000 000
ODM-GSC	1970	Ramore, Cochrane and Timiskaming Districts Aeromagnetic Series	Map 295G (Rev.)	1:63 360
ODM-GSC	1970	Timmins, Cochrane, Timiskaming and Sudbury Districts, Total Field Contour Map	GSC Map 7085G	1:250 000
ODM-GSC	1970	Ramore, Cochrane and Timiskaming Districts, Ontario, Aeromagnetic Series	GSC Map 8430G	1:31 680
ODM-GSC	1970	Ramore, Cochrane and Timiskaming Districts, Ontario, Aeromagnetic Series	GSC Map 8433G	1:31 680
ODM-GSC	1975	Ramore East, NTS 42A/8h, High Resolution Aeromagnetic	GSC Map 20 151G	1:25 000
ODM-GSC	1975	Ramore East, NTS 42A/8h, High Resolution Aeromagnetic	GSC Map 20 152G	1:25 000
ODMNA	1974	Aeromagnetic Index of Ontario	ODMNA Map 2229	1"=30mi.

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Author	Date	Title	Reference	Map Scales and/or Report Pages
OGS	1984	Airborne Electromagnetic Survey, Total Intensity Magnetic Survey Cook Tp., NTS 42A/8N Matheson-Black River Cochrane District	OGS Map 80 606	1:20 000 1:31 680
OGS-GSC	1979	Airborne Gamma-Ray Spectrometric Total Count, Timmins, NTS 42A	OGS Map 80 280 GSC Map 35142G	1:250 000
OGS-GSC	1979	Airborne Gamma-Ray Spectrometric Potassium (percent), Timmins, NTS 42A	OGS Map 80 281 GSC Map 35142G	1:250 000
OGS-GSC	1979	Airborne Gamma-Ray Spectrometric Uranium (eU), Timmins, NTS 42A	OGS Map 80 282 GSC Map 35142G	1:250 000
OGS-GSC	1979	Airborne Gamma-Ray Spectrometric Thorium (eTh), Timmins, NTS 42A	OGS Map 80 283 GSC Map 35142G	1:250 000
OGS-GSC	1979 -	Airborne Gamma-Ray Spectrometric eU/Th Ratio, Timmins, NTS 42A	OGS Map 80 284 GSC Map 35142G	1:250 000
OGS-GSC	1979	Airborne Gamma-Ray Spectrometric eU/K Ratio, Timmins, NTS 42A	OGS Map 80 285 GSC Map 35142G	1:250 000
OGS-GSC	1979	Airborne Gamma-Ray Spectrometric eTh/K Ratio, Timmins, NTS 42A	OGS Map 80 286 GSC Map 35142G	1:250 000
OGS-GSC	1979	Airborne Gamma-Ray Spectrometric Profiles of Integral U, Th, K, U/Th, U/K, Th/K for line 60(1), Timmins, NTS 42A	OGS Map 80 315 GSC Map 35142G	1:250 000
OGS-GSC	1979	Airborne Gamma-Ray Spectrometric Profiles of Integral U, Th, K, U/Th, U/K, Th/K for line 61(1), Timmins, NTS 42A	OGS Map 80 316 GSC Map 35142G	1:250 000

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Author	Date	Title	Reference	Map Scales and/or Report Pages
		GEOLOGICAL MAPS AND REPORTS		
Baker, C.L.	1982	Drift Thickness of the Ramore Area, Cochrane and Timiskaming Districts	OGS Map P.2477	1:50 000
Baker, C.L.	1982	Sand and Gravel Resources of the Ramore Area, Cochrane and Timiskaming Districts	OGS Map P.2489	1:50 000
Baker, C.L.	1985	Overburden Stratigraphy of the Matheson Area: Advancing Thoughts on Ice Fronts (Abstract)	OGS Geo. Sci. Seminar & Open House '85	p.9
Baker, C.L.	1985	Quaternary Geology of the Kirkland Lake Area, Districts of Cochrane and Timiskaming	OGS OFR 5553	144p.
Baker, C.L. Seaman, A.A. Steele, K.G.	1980 -	Quaternary Geology of Ramore Area, Districts of Cochrane and Timiskaming	OGS Map P.2381	1:50 000
Baker, C.L. Steele, K.G.	1984	Sonic Drilling-Exploration Basics in the Matheson Area (Abstract)	OGS Geo. Sci. Seminar & Open House '85	p.23
Baker, C.L. Steele, K.G. McClenaghan, M.B.	1985	Reconnaissance Till Sampling Program, Matheson-Lake Abitibi Area, Cochrane District.	OGS MP 126	p.329-333
Baker, C.L. Steele, K.G. McClenaghan, M.B.	1986	Gold Grains in Sonic Drill Core Samples (1985) from the Lake Abitibi-Matheson Area, District of Cochrane	OGS Map P.2958	1:100 000
Barlow, R.B. Pitcher, D.H.	1984	An Airborne Electromagnetic-Magnetic Survey of the Black River-Matheson (BRIM) Area, District of Cochrane	OGS MP 119	p.287-289

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Bath, A.C.	1985	Black River-Matheson Economic Geologist Program	OGS MP 126	p.301-311
Bath, A.C.	1985	Black River-Matheson Economic Geologist Program (Abstract)	OGS Geo. Sci. Seminar & Open House '85	p.8
Burrows, A.G.	1925	The Porcupine Gold Area, Cochrane District, Ontario	ODM AR v.33 pt.2 ODM Map 33A	p.1-84
Fortescue, J.A.C.	1984	Summary of Activities 1984, BRIM Program	OGS MP 119	p.274-277
Ginn, R.M.	1962	Munro-Pontiac Sheet, District of Cochrane	ODM Map P.120	1:63 360
Hodgson, C.J.	1983	Preliminary Report on the Timmins-Kirkland Lake Area Gold Deposits File	OGS OFR 5467	434p.
Hughes, O.L.	1960	Surficial Geology of Kirkland Lake, Timiskaming and Cochrane Districts, Ontario	GSC Map 1-1960	1:126 720
Guillet, R.	1969	Ontario Marl Deposits	ODM Map 2183	1:1 013 760
Jensen, L.S.	1974	Ramore Area. Districts of Timiskaming and Cochrane, Ontario	ODM MP 59	p.99-106
Jensen, L.S.	1975	Ramore Area. District of Timiskaming and Cochrane, Ontario	ODM MP 63	p.73-75
Jensen, L.S.	1985	Geological Overview of the BRIM Area (Abstract)	OGS Geo. Sci. Seminar & Open House '85	p.6
Jensen, L.S.	1985	Precambrian Geology of the Ramore Area, Open File Map	OGS Map OFM 12	1:50 000

GDIF FORM NO.9

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Jensen, L.S. Langford, F.F.	1983	Geology and Petrogenesis of the Archean Abitibi Belt in the Kirkland Lake Area, Ontario	OGS OFR 5455	520p.
Jensen, L.S. Langford, F.F.	1985	Geology and Petrogenesis of the Archean Abitibi Belt in the Kirkland Lake Area, Ontario	OGS MP 123	130p.
Jensen, L.S.	1985	Precambrian Geology of the Ramore Area, Northwestern Part, District of Cochrane	OGS Map P.2860	1:15 840
Jensen, L.S.	1985	Precambrian Geology of the Ramore Area, Northeastern Part, District of Cochrane (42A/8)	OGS Map P.2861	1:15 840
Jensen, L.S. Baker, C.L.	1986	Preliminary Results of Bedrock Samples from the Sonic Drilling Program (1985) in the Lake Abitibi-Matheson Area.	OGS Map 2986	1:100 000
Lee, H.A.	1979	Northern Ontario Engineering Geology Terrain Study, Data Base Map, Kirkland Lake	OGS Map 5030	1:100 000
Lovell, H.L. Caine, T.W.	1970	Lake Timiskaming Rift Valley	ODM MP 39	
Lovell, H.L. Frey, E.D. GSC staff	1975	Cook Township, Cochrane District, Ontario Kirkland Lake Data Series	ODM Map P.829	1:15 840
Lovell, H.L. Grabowski, G. Guindon, D.	1985	Kirkland Lake Resident Geologist Area, Northern Region	OGS MP 126 OGS MP 122	p.162-196
Malczak, J.	1985	Industrial Mineral Potential of the Black River-Matheson (BRIM) Area, District of Cochrane	OGS MP 126	p.326-328

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Author	Date	Title	Reference	Map Scales and/or Report Pages
Malczak, J.	1985	Overview of the Industrial Mineral Potential of the Black River-Matheson (BRIM) Area (Abstract)	OGS Geo. Sci. Seminar & Open House '85	p.9
McClenaghan, M.B.	1985	Backhoe Sampling and Analytical Procedures: Fingerprinting the Drift (Abstract)	OGS Geo. Sci. Seminar & Open House '85	p.10
Middleton, R.S.	1976	Gravity Survey of Geological Structures in the Timmins and Matheson Area, NTS 42A, Cochrane, Sudbury and Timiskaming Districts	ODM GR 135 Maps 2321 2322	 1:250 000 1:250 000
Moore, E.S.	1936	Geology and Ore Deposits of the Ramore Area, Cochrane District	OGS AR v.45 pt. 6 Map 45d	p.1-37 1:47 520
OGS	1984	Ontario Mineral Deposit Inventory	OGS OFR 5470	
Pitcher, D.H.	1985	A Correlation of Airborne and Ground Electromagnetics With Sonic Drilling Results in the Black River-Matheson Area	OGS MP 126	p.334-340
Pitcher, D.H. Barlow, R.B. McNeill, J.D.	1984	Mapping the Overburden in Black River-Matheson (BRIM) Area, District of Cochrane, employing an airborne time-domain system	OGS MP 119	p.299-307
Ploeger, F. Campbell, A. Grabowski, G.	1979	Cook Township, District of Cochrane Kirkland Lake Data Series	Map P.829 (Rev.)	1:15 840
Sado, E.V.	1985	Summary of Activities 1985, Operation Black River-Matheson (BRIM)	OGS MP 126	p.287-290

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Author	Date	Title	Reference	Map Scales and/or Report Pages
Sado, E.V.	1985	Introduction to the Black River-Matheson Program (BRIM) (Abstract)	OGS Geo. Sci. Seminar & Open House '85	p.5
Satterly, J.	1958	Geological Map of the Province of Ontario	ODM Map 1958B	1:1 267 200
Satterly, J.	1968	Aeromagnetic Maps of Carbonatite-Alkalic Complexes in Ontario	ODM Map P.452	3"=200mi.
Steele, K.G.	1985	Sonic Drilling-Rigs, Rods and Reasons (Abstract)	OGS Geo. Sci. Seminar & Open House '85	
Steele, K.G. McClenaghan, M.B. Baker, C.L.	1986	Gold Grains in Backhoe Till Samples (1984-1985) from the Matheson-Lake Abitibi Area, District of Cochrane	OGS Map P.2983	1:100 000
Strangway, D.W.S. Geissman, J.W. Letros, S., Bambrick, J. Tasillo, A.	1981	Magnetism and Stratigraphy in the Blake River Volcanics	OGS OFR 5365 pt.6	
Sutherland, T.F. Collins, E.A. Stovel, J.H. Bartlett, J.	1917	Mines of Ontario	OBM AR	p.74-156
Tasillo, A.M.	1981	Paleomagnetism of the Blake River Group, Abitibi Greenstone Belt, Ontario	OGS OFR 5365 Pt. 6	

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Author	Date	Title	Reference	Map Scales and/or Report Pages
Tasillo, A.M. Geissman, J.W. Strangway, D.W. Jensen, L.S.	1981	Paleomagnetism of Late Archean Metavolcanics and Metasediments, Abitibi Orogen, Canada II Calc-Alkalic Volcanics of the Blake River Group and Chaput Hughes Member of the Timiskaming Group	OGS OFR 5365 pt. 3	
Todd, E.W.	1926	Anima-Nipissing Lake Area, Timiskaming and Nipissing Districts, Ontario	ODM AR v.35 pt.3 Map 39C	p.79-104
Whittaker, P.J.	1985	Regional Metallogenesis of the BRIM Area, District of Cochrane (Abstract)	OGS Geo. Sci. Seminar & Open House '85	
Whittaker, P.J. Malczak, J.	1984	Mineral Deposits Investigation in the Black River-Matheson (BRIM) Area, District of Cochrane	OGS MP 119	p.290-294
Wright, D.G.H.	1922	The Black River Area	ODM AR v.30 pt.6 Map 30C	p.27-62
Wright, D.G.H.	1922	Geology of the Watabeag Area, Timiskaming and Cochrane Districts	ODM AR v.31 pt. 7 Map 31D	33p. 1:63 360
		JOURNAL ARTICLES, THESES, TECHNICAL ARTICLES		
Agterberg, F.P. Chung, C.F. Fabbri, A.G. Kelly, A.M.	1972	Geomathematical Evaluation of Copper and Zinc Potential of the Abitibi Area, Ontario and Quebec	GSC Paper 71-41	55p.
Canada Department of Agriculture	1978	Soils of Timmins-Noranda-Rouyn Area, Ontario, NTS 42A-32D	Can. Dept. of Agri. Soil Surv. Rept. No. 46	

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Author	Date	Title	Reference	Map Scales and/or Report Pages
Geissmann, J.W. Strangway, D.W. Tasillo-Hirt, A.M. Jensen, L.S.	1983	Paleomagnetism of Late Archean Metavolcanics and Metasediments Abitibi Orogen, Canada: Tholeiites in the Kinojevis Group	Can. Jour. of Earth Sci. v.20	p.436-461
Gleeson, C.F. Hornbrook, E.H.W.	1973	Moving Average-Residual Anomaly Maps Showing Distribution of Elements in Lake Bottom Sediments in the Timmins-Val d'Or Region of Ontario and Quebec	GSC OF 127	1:250 000
Goodwin, A.M.	1980	Archean Volcanic Studies in the Timmins-Kirkland Lake-Noranda Region of Ontario and Quebec	GSC Bull. 278 with Map 1461A	51p. 1:250 000
Goodwin, A.M.	1980	Geology of Timmins-Kirkland Lake, Ontario-Quebec	OGS Map 1461A acc. Bull. 278	
Hornbrook, E.H.W. Gleeson, C.F.	1972	Regional Geochemical Lake Bottom Sediment and Till Sampling in the Timmins-Val d'Or Region of Ontario and Quebec	GSC OF 112	
Jackson, M.C.	1980	Stratigraphy and Flow Morphology of Archean Tholeiites Northeastern Ontario	Precam. Res., v.12	p.31-41
Jackson, M.C.	1980	Geology and Petrology of Archean Basalts and Associated Rocks at Lava Flow Mountain, NE Ontario	Unpub. MSc Thesis U. of Toronto	260p.
Jensen, L.S.	1985	Stratigraphy and Petrogenesis of Archean Metavolcanic Sequences, Southwestern Abitibi Subprovince, Ontario	GAC Paper 28	p.65-88
Kutina, J. Fabbri, A.	1972	Relation of Structural Lineaments and Mineral Occurrences in the Abitibi Area	GSC Paper 71-9	

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Author	Date	Title	Reference	Map Scales and/or Report Pages
Letros, S.	1981	Geological Interpretation of High Resolution Aeromagnetic Data in the Kirkland-Larder Lake Area	OGS OFR 5365 MSc Thesis U. of Toronto Can. J. of Earth Sci., v.20	 P.548-560
Letros, S. Strangway, D.W. Tasillo, A.M. Geissman, J.W.	1981	Grant #20 Magnetism and Stratigraphy in the Blake River Volcanics.	OGS OFR 5365	
Letros, S. Strangway, D.W. Tasillo-Hirt, A.M. Geissman, J.W. Jensen, L.S.	1983	Aeromagnetic Interpretation of the Kirkland Lake-Larder Lake Portion of the Abitibi Greenstone Belt, Ontario	Can. Jour. of Earth Sci. v.20	p.548-560
Middleton, R.S.	1975	Gravity Control Network in the Timmins, Matheson and Cobalt Area, Cochrane and Timiskaming Districts, Ontario	ODM GR 127	
Smith, I.E.M.	1980	Geochemical Evolution in the Blake River Group, Abitibi Greenstone Belt, Superior Province	Can. Jour. of Earth Sci. v.17	p.1292-1299
Tasillo, A.M.	1981	Paleomagnetism of the Blake River Group, Abitibi Greenstone Belt, Ontario	MSc Thesis U. of Toronto	

COOK TOWNSHIP

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages

GDIF FORM NO. 9

NOTES AND ADDENDA

Aerial Photography
on File in Kirkland Lake
Resident Geologist's Office

YEAR	ROLL	FLIGHT LINE	PHOTO
1959	4815	33	118
	4815	33	121
	4815	33	122
	4815	33	123
	4815	33	124
	4815	33	125
1971	4816	43	51
	4816	43	52
	4816		
	4816	43	54
	4816	43	55
	4816	43	56
	4816	43	57
1971	4817	9	235
	4817	9	238
	4817	9	239
	4817	9	240
	4817	9	241
1971	4818	9	137
	4818	9	140
	4818	9	141
	4818	9	142

Note: Aerial
See Photograph file Barnet Township for
1959-4815-33 #119 #120 #125

GDIF FORM NO.8

Ministry of Northern Development and Mines

Ontario

René Fontaine
Minister

George Tough
Deputy Minister

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 356

(Map 1 of 2)

COOK TOWNSHIP

DISTRICT OF COCHRANE

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

EXPLORATION DATA FILE AREAS

(6) Reference number is always inside work area outlined.

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 356

(Map 1 of 2)

COOK TOWNSHIP

DISTRICT OF COCHRANE

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

PLAYFAIR TP.

BARNET TP.

BENOIT TP.

80°15'00"

48°27'30"

EXPLORATION DATA FILE AREAS

■ 1 6 — Reference number is always inside work area outlined. See listing in text pages.

■ x 4 — Small area exploration.

TYPES OF DATA SHOWN ON THIS MAP

GEOCHEMICAL AND GEOCHRONOLOGICAL DATA

- ☐ Geochemical sample site, with reference number
- ☐ Area of geochemical sampling, with reference number
- ☐ Age dating material sampling site, with reference number

GEOPHYSICAL ANOMALIES

- ■ AM — Airborne magnetic anomaly
- ☐ Airborne electromagnetic anomaly
  Length of anomaly along flight line
- ■ Airborne electromagnetic anomaly
  Location of anomaly along flight line
- ☐ Airborne electromagnetic anomaly
  Conductor axis: definite, probable, possible
- ■ AVLF — Airborne VLF anomaly
- ■ M — Ground magnetic anomaly
- ■ VL — Ground electromagnetic anomaly
  (VL - Vertical loop; HL - Horizontal loop;
  VLF - Very low freq; Turam; JEM -
  Crone Em - 16)
- ☐ RA — Ground radiometric anomaly
- ☐ IP — Induced polarization anomaly
- ☐ SP — Self potential anomaly
- ☐ AFMAG — Audio-frequency magnetic anomaly
  (total intensity)
- ☐ R — Resistivity anomaly
- ☐ GR — Gravity anomaly

MISCELLANEOUS DATA

- ■ Trenching, pit; property no.
- ☐ Adit
- ☐ Rock quarry
- ☐ Sand and/or gravel pit

CLIFFORD TP

PLAYFAIR TP

48°26'30"

80°10'00"

80°15'00"

Au A
Au B
Au, Ag C
Au D
Au E
Au F

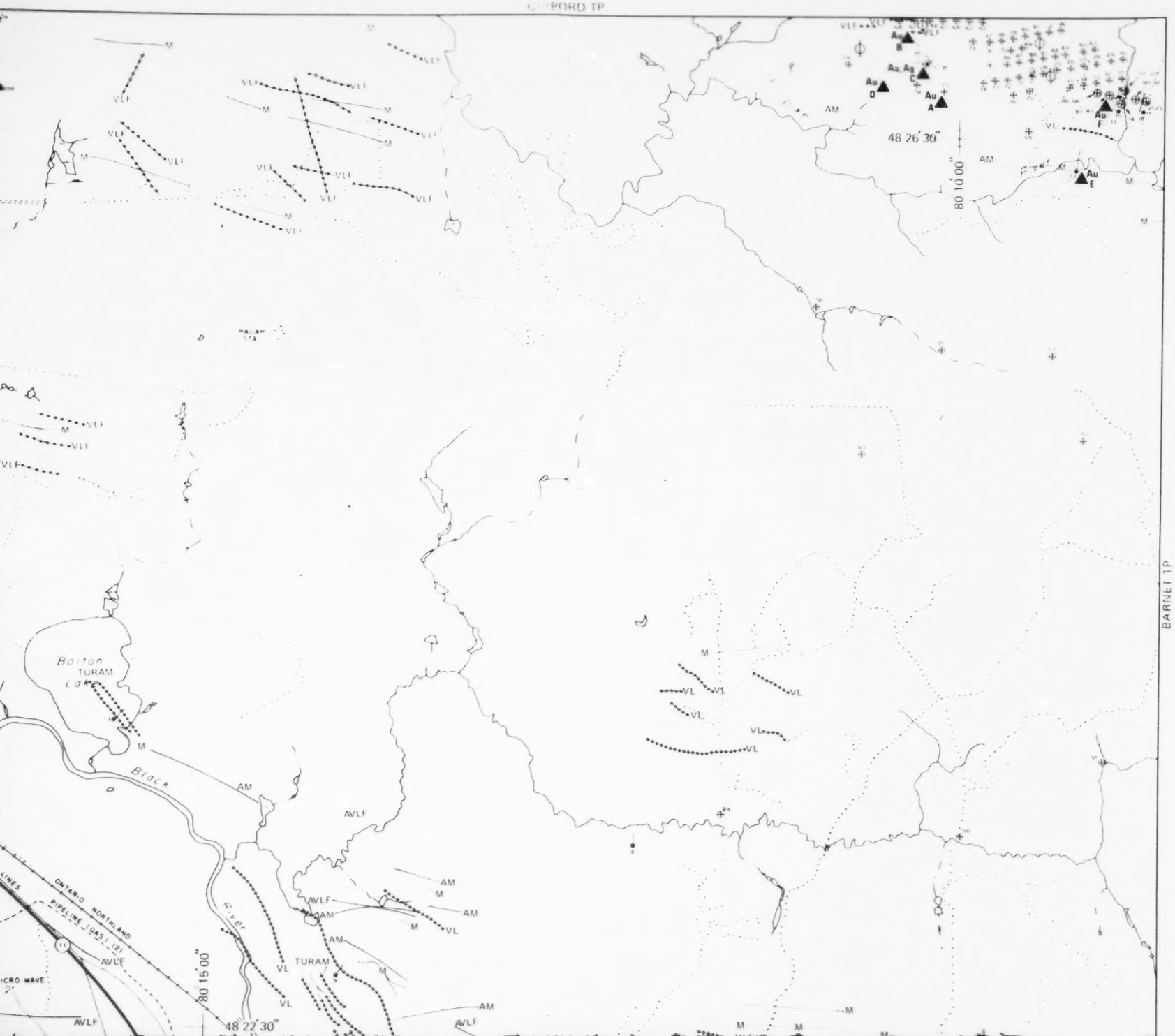
TURAM

AM
AVLF
VL
M
VLF

2 LINES ONTARIO NORTHLAND PIPELINE (GAS) (OIL)

MICRO WAVE

RIVER



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ONTARIO GEOLOGICAL SURVEY

EXPLORATION DATA MAP

GEOLOGICAL DATA INVENTORY FOLIO 356

(Map 2 of 2)

COOK TOWNSHIP

DISTRICT OF COCHRANE

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

MINERAL OCCURRENCES

- cp A. — Mineral occurrence at surface, with reference letter
- Au A. 84' — Mineral occurrence with shaft, depth given with reference letter
- Ag A. — Mineral occurrence reported but exact location uncertain, with reference letter
- cp A. — Mineralized float with reference letter

DRILLHOLE

- Location of single drillhole, with reference number
- Location of closely spaced group of drillholes, with reference number
- Drillhole, exact location uncertain, with reference number
- Property with underground drillholes in this general area, with reference number
- Property with drillholes which have not been plotted on map, with reference number

Age dating material sampling site, with reference number

GEOPHYSICAL ANOMALIES

- Airborne magnetic anomaly
- Airborne electromagnetic anomaly
  Length of anomaly along flight line
- Airborne electromagnetic anomaly
  Location of anomaly along flight line
- Airborne electromagnetic anomaly
  Conductor axis: definite, probable, possible
- Airborne VLF anomaly
- Ground magnetic anomaly
- Ground electromagnetic anomaly
  (VL - Vertical loop; HL - Horizontal loop;
  VLF - Very low freq; Turam; JEM
  Crone Em - 16)
- Ground radiometric anomaly
- Induced polarization anomaly
- Self potential anomaly
- Audio-frequency magnetic anomaly
  (total intensity)
- Resistivity anomaly
- Gravity anomaly

MISCELLANEOUS DATA

- Trenching, pit, property no.
- Adit
- Open pit
- Rock quarry
- Sand and or gravel pit

NOTE - Consult the text that accompanies this map for pertinent lists of data, references, and abbreviations.

EXPLORATION DATA MAP

GEOLOGICAL DATA INVENTORY FOLIO 356

(Map 2 of 2)

COOK TOWNSHIP

DISTRICT OF COCHRANE

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

MINERAL OCCURRENCES

- cp A. — Mineral occurrence at surface, with reference letter
- Au A. 84' — Mineral occurrence with shaft, depth given with reference letter
- Ag A. — Mineral occurrence reported but exact location uncertain, with reference letter
- cp A. — Mineralized float with reference letter

DRILLHOLE

- ² — Location of single drillhole, with reference number
- ² — Location of closely spaced group of drillholes, with reference number
- (?)² — Drillhole, exact location uncertain, with reference number
- Property with underground drillholes in this general area, with reference number
- ² — Property with drillholes which have not been plotted on map, with reference number
- ² — Reverse circulation drillhole; churn drilling, with reference number
- 2-4 — Several reverse circulation drillholes with reference numbers